

Talex invests in state-of-the-art technology from Profile Automation



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The year 2014 marked an important industrial breakthrough for Profile Automation. The company was awarded several orders by the Abu Dhabi based company Taweelah Aluminium Company (Talex) for various sections in the plant. The scope of supply includes a completely automated die storage system and the automatic bundle storage warehouse, which both feature the highest possible level of automation and efficiency available on the market today. The equipment will support Talex's ranking as one of the most modern aluminium extruders in the world.

Profile Automation, which has been part of the Presezzi Group since September 2013, is based just outside the town of Mantua and only 30 kilometres away from Verona. Previously named Pezzorgna Armando, dating back to 1971, the company now plays an important role within the Presezzi Group. Together with the sister companies COIM and Reiter & Crippa, with their furnace technology, Profile Automation serves to complete the range of machinery available to extruders, thus ensuring a 'One Shop Stop' for turnkey installations.

The project as a whole includes the supply of two new presses, delivered by Presezzi Extrusion: an 8" (25 MN) and a 10" (35 MN)

press. The maximum length of the extruded profiles will be 14,200 mm.

In summarizing the scope of supply which Talex has ordered from Profile Automation: the first part of the project, to be installed in April, will include the automatic die storage system with 9,660 dies in a diameter range from 450 to 800 mm. The order also comprises all the conveyors to transfer the dies in the die workshop and at the various cleaning stations. The first phase also includes a completely automatic overhead bridge crane for loading the two ageing ovens and an additional two cross-over ovens with a 21-metre span in the main logistics centre, designed to transfer filled baskets to the various parts of the plant – the anodizing or powder coating lines for example, as well as returning the emptied baskets to the presses.

The second phase, to be installed in August 2015, will include the first five packing lines – one to be installed at the anodizing line, one at the vertical powder coating line and another two for mill finished products – and the automatic high rack bundle storage warehouse with a total of 1,900 positions, for bundles up to 8,200 mm in length and weighing up to 1,800 kg. This second supply will also include all the ancillary machines and conveyors required to distribute the full and

empty baskets all around the plant. Thus Talex can forgo forklifts which could be a safety hazard.

Extensive work had been carried out on the project over several years by both the project teams at Profile Automation and at Talex, and had involved numerous meetings and workshops to ensure that all the latest technology and innovation was taken into account and to limit any oversights in the implementation phase. Talex also involved several high-qualified European engineers and managers in the project team in order to ensure that the knowledge acquired over many years' experience in a highly competitive and technologically advanced market would be put to good use in ensuring that any investments made would include the highest level of technology available in the industry.

This investment in the Middle East represents a significant challenge for the industry, and Talex will be a benchmark for other extruders in the area in which both Profile Automation and the Presezzi Group have been involved over the last 25 years. The project team at Talex, involving local managers as well, has always focused on providing high-quality products in Abu Dhabi and the adjacent markets, as well as incorporating reliability and efficiency in the plant with the lowest possible overheads, especially in terms of the workforce.

The first two presses and all the rest of the machinery in the plant are expected to reach full productivity by the end of 2015.

